



## Protein Synthesis and Disease

Guest Editor:

**Prof. Dr. Martin Holcik**

Department of Health Sciences,  
Carleton University, Ottawa, ON  
K1S 5B6, Canada

Deadline for manuscript  
submissions:

**closed (30 September 2020)**

### Message from the Guest Editor

The ability of cells to adapt to stress is crucial for their survival. The stress conditions that cells must respond to—such as hypoxia, inflammation, and drug exposure—often feature prominently in varied pathological states such as cancer, diabetes, and obesity. One of the key cellular adaptation strategies that have evolved to allow organisms to respond to such conditions includes the regulation of protein synthesis (mRNA translation), providing the rapid and reversible regulation of the cellular proteome. Closely regulated protein synthesis plays a central role in virtually all fundamental biological processes; conversely, dysregulated translation has been implicated in disease pathogenesis. Although protein synthesis has been studied for over eight decades, the basic mechanistic underpinnings of gene expression regulation at the translation level during pathological conditions are still not completely understood.

This Special Issue, “Protein Synthesis and Disease”, will cover a selection of recent research topics and current review articles specifically examining the role of dysregulated protein synthesis in disease.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Maurizio Battino**

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI